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DATE CONSIDERED: 12/13/04

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## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of  
Invention

IN SITU THERMAL PROCESSING OF A HYDROCARBON  
CONTAINING FORMATION TO PRODUCE A MIXTURE  
INCLUDING AMMONIA

Application Number: 09/841636



Confirmation Number: 6234

First Named Applicant: Scott Wellington

Attorney Docket Number: 5659-03700

Art Unit: 1764

Examiner: Thuan D. Dang

Search string: ( 6698515 or 6702016 or 6708758 or 6712135  
or 6712136 or 6712137 or 6715546 or 6715547  
or 6715549 or 6715548 or 6719047 or 6722431  
or 6722430 or 6722429 or 6725920 or 6725921  
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or 6588503 or 6591906 or 6591907 or 6607033  
or 6609570 or 6688387 or 6761216 or  
20040069486 or 20040015023 or 20030213594  
or 20040040715 or 20040020642 or  
20040108111 ).pn.

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
01	1	6698515	2004-03-02	Karanikas et al.			
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	3	6708758	2004-03-23	de Rouffignac et al.			
	4	6712135	2004-03-30	Wellington et al.			
	5	6712136	2004-03-30	de Rouffignac et al.			
	6	6712137	2004-03-30	Vinegar et al.			



	7	6715546	2004-04-06	Vinegar et al.
1	8	6715547	2004-04-06	Vinegar et al.
	9	6715549	2004-04-06	Wellington et al.
	10	6715548	2004-04-06	Wellington et al.
	11	6719047	2004-04-13	Fowler et al.
	12	6722431	2004-04-20	Karanikas et al.
	13	6722430	2004-04-20	Vinegar et al.
	14	6722429	2004-04-20	de Rouffignac et al.
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	21	6729395	2004-05-04	Shahin et al.
	22	6732794	2004-05-11	Wellington et al.
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	24	6736215	2004-05-18	Maher et al.
	25	6739394	2004-05-25	Vinegar et al.
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	28	6742587	2004-06-01	Vinegar et al.
	29	6742589	2004-06-01	Berchenko et al.
	30	6742588	2004-06-01	Wellington et al.
	31	6745837	2004-06-08	Wellington et al.
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	34	6752210	2004-06-22	de Rouffignac et al.
	35	6758268	2004-07-06	Vinegar et al.
	36	6763886	2004-07-20	Schoeling et al.
	37	6769485	2004-08-03	Vinegar et al.
	38	6769483	2004-08-03	de Rouffignac et al.
	39	6581684	2004-06-24	Wellington et al.
	40	6588504	2004-07-08	Wellington et al.
	41	6588503	2004-07-08	Karanikas et al.
	42	6591906	2004-07-15	Wellington et al.



	43	6591907	2004-07-15	Zhang et al.
	44	6607033	2003-08-19	Wellington et al.
	45	6609570	2003-08-26	Wellington et al.
	46	6688387	2003-02-10	Wellington et al.
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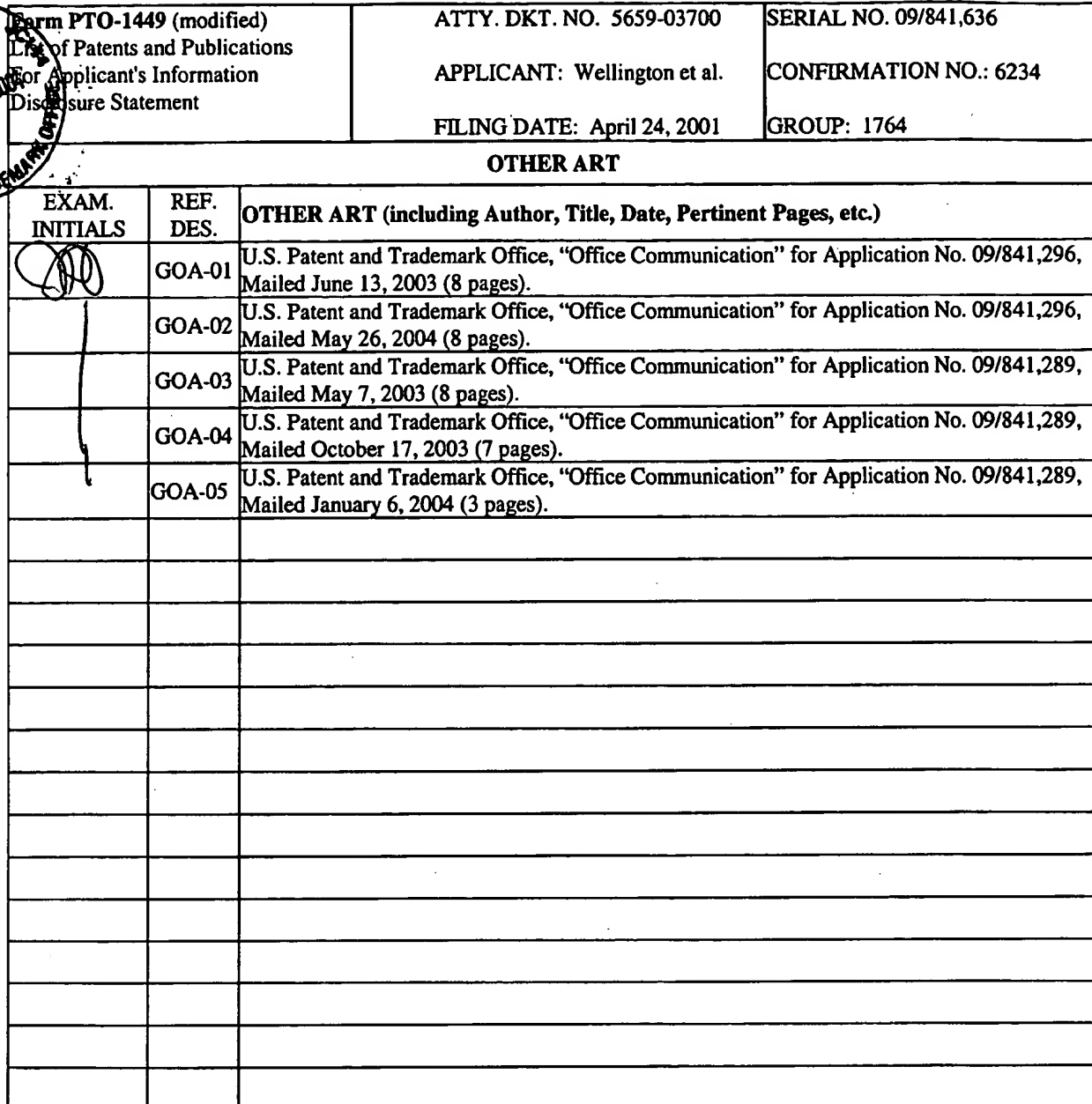
## US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

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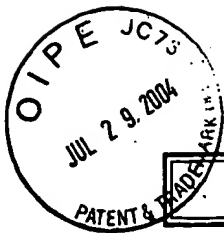
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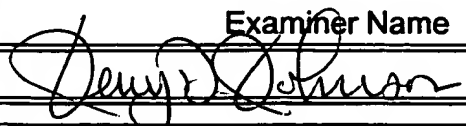
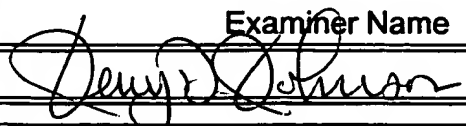
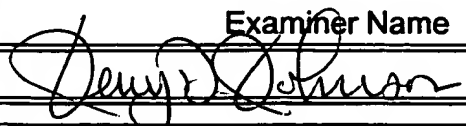
Page 1 of 1  
(modified)

Information Disclosure Statement—PTO 1449



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Electronic Version v18  
Stylesheet Version v18.0

<b>Title of Invention</b>	<b>IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO PRODUCE A MIXTURE INCLUDING AMMONIA</b>																																																																																															
<p>Application Number: 09/841636 </p> <p>Confirmation Number: 6234</p> <p>First Named Applicant: Scott Wellington</p> <p>Attorney Docket Number: 5659-03700</p> <p>Art Unit: 1764</p> <p>Examiner: T. D. Dang</p> <p>Search string: ( 3004596 or 3342258 or 3455383 or 3501201 or 3502372 or 3759574 or 4160479 or 4375302 or 4483398 or 4815790 ).pn.</p> <p><b>US Patent Documents</b></p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td><input checked="" type="checkbox"/></td><td>1</td><td>3004596</td><td>1961-10-17</td><td>Parker et al.</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>2</td><td>3342258</td><td>1967-09-19</td><td>Prats</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>3</td><td>3455383</td><td>1969-07-15</td><td>Prats et al.</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>4</td><td>3501201</td><td>1970-03-17</td><td>Closmann et al.</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>5</td><td>3502372</td><td>1970-03-24</td><td>Prats</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>6</td><td>3759574</td><td>1973-09-18</td><td>Beard</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>7</td><td>4160479</td><td>1979-07-10</td><td>Richardson et al.</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>8</td><td>4375302</td><td>1983-03-01</td><td>Kalmar</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>9</td><td>4483398</td><td>1984-11-20</td><td>Peters et al.</td><td></td><td></td><td></td></tr><tr><td><input type="checkbox"/></td><td>10</td><td>4815790</td><td>1989-03-28</td><td>Rosar et al.</td><td></td><td></td><td></td></tr></tbody></table> <p><b>Signature</b></p> <table border="1"><tr><td><b>Examiner Name</b> </td><td><b>Date</b> 12/13/04</td></tr></table>							init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	<input checked="" type="checkbox"/>	1	3004596	1961-10-17	Parker et al.				<input type="checkbox"/>	2	3342258	1967-09-19	Prats				<input type="checkbox"/>	3	3455383	1969-07-15	Prats et al.				<input type="checkbox"/>	4	3501201	1970-03-17	Closmann et al.				<input type="checkbox"/>	5	3502372	1970-03-24	Prats				<input type="checkbox"/>	6	3759574	1973-09-18	Beard				<input type="checkbox"/>	7	4160479	1979-07-10	Richardson et al.				<input type="checkbox"/>	8	4375302	1983-03-01	Kalmar				<input type="checkbox"/>	9	4483398	1984-11-20	Peters et al.				<input type="checkbox"/>	10	4815790	1989-03-28	Rosar et al.				<b>Examiner Name</b> 	<b>Date</b> 12/13/04
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ATTY. DKT. NO. 5659-03700

SERIAL NO. 09/841,636

**APPLICANT:** Wellington et al.

**CONFIRMATION NO: 6234**

**FILING DATE: 4/24/2001**

ART UNIT: 1764

## OTHER ART

CC01 Porter, H. P., Petroleum Dictionary for Oil, Field, and Factory, The Gulf Publishing Company, 1948, 4th Ed., page 312.

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Examiner: T. D. Dang

Search string: ( 3994340 or 3994341 or 4460044 or 4696345  
or 2584605 or 2969226 or 3982591 or  
3982592 ).pn.

### US Patent Documents

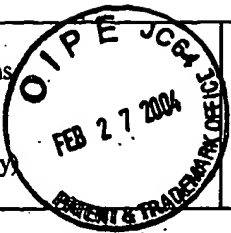
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Signature

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Form PTO-1449 (modified)  
List of Patents and Publications  
For Applicant's Information  
Disclosure Statement  
(Use several sheets if necessary)



ATTY. DKT. NO. 5659-03700

SERIAL NO. 09/841,636

APPLICANT: Wellington et al.

CONFIRMATION NO.: 6234

FILING DATE: April 24, 2001

ART UNIT: 1764

**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	U11	4006778	2/8/1977	Redford et al.	—	—	

EXAM. INITIALS	REF. DES.	OTHER ART (including Author, Title, Date, Pertinent Pages, etc.)
	AA11	Van Krevelen, D. W.; COAL: Typology-Physics-Chemistry-Constitution, 1993, p. 371.

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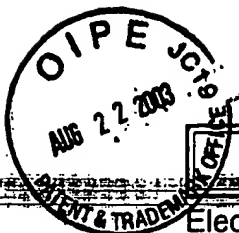


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<p>Application Number: 09/841636 Confirmation Number: 6234 First Named Applicant: Scott Wellington Attorney Docket Number: 5659-03700 Art Unit: 1764 Examiner: Glenn A. Caldarola Search string: ( 3947656 ).pn.</p> <p><b>US Patent Documents</b></p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>3947656</td><td>1976-03-30</td><td>Lodi</td><td></td><td></td><td></td></tr></tbody></table> <p><b>Signature</b></p> <table border="1"><thead><tr><th>Examiner Name</th><th>Date</th></tr></thead><tbody><tr><td></td><td>12/13/04</td></tr></tbody></table>		init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass		1	3947656	1976-03-30	Lodi				Examiner Name	Date		12/13/04
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Confirmation Number: 6234

First Named Applicant: Scott Wellington

Attorney Docket Number: 5659-03700

Art Unit: 3672

Examiner: Glenn A. Caldarola

Search string: ( 4931171 or 4737267 or 4384948 or 3593790  
or 3497000 or 3244231 or 3223166 ).pn.



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## US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

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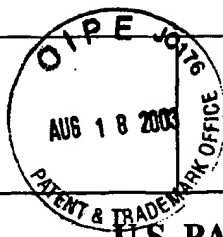
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Signature

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ATTY. DKT. NO. 5659-03700

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# U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	S5	2,857,002	10/21/1958	Pevere et al.			
	U1	3,165,154	1/12/1965	Santourian			
	U2	4,458,757	7/10/1984	Bock et al.			

## FOREIGN PATENT DOCUMENTS

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	T01	1836876	12/30/1994	SU			Y

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	T02	Burnham, Alan, K. "Oil Shale Retorting Dependence of timing and composition on temperature and heating rate", January 27, 1995, (23 pages).					
	T03	Burnham et al. "A Possible Mechanism of Alkene/Alkane Production in Oil Shale Retorting, (7 pages).					
	T04	Campbell, et al., "Kinetics of oil generation from Colorado Oil Shale" IPC Business Press, Fuel, 1978, (3 pages).					
	T05	Cummins et al. "Thermal Degradation of Green River Kerogen at 150° to 350 °C", Report of Investigations 7620, U.S. Government Printing Office, 1972, (pages 1-15).					
	T06	Cook, et al. "The Composition of Green River Shale Oils", United Nations Symposium on the Development and Utilization of Oil Shale Resources, Tallinn, 1968, (pages 1-23).					
	T07	Hill et al., "The Characteristics of a Low Temperature in situ Shale Oil" American Institute of Mining, Metallurgical & Petroleum Engineers, 1967 (pages 75-90)..					
	T08	Dinneen, et al. "Developments in Technology for Green River Oil Shale" United Nations Symposium on the Development and Utilization of Oil Shale Resources, Tallinn, 1968, (pages 1-20).					
	T09	De Rouffignac, E. "In Situ Resistive Heating of Oil Shale for Oil Production-A Summary of the Swedish Data, (4 pages).					
	T10	Dougan, et al. "The Potential for in situ Retorting of Oil Shale in the Piceance Creek Basin of Northwestern Colorado", Quarterly of the Colorado School of Mines (pages 57-72).					
	T11	Hill et al. "Direct Production of Low Pour Point High Gravity Shale Oil" I&EC Product Research and Development, 1967, Volume 6, (pages 52-59).					
	T12	Yen et al., "Oil Shale" Developments in Petroleum Science, 5, Elsevier Scientific Publishing Co., 1976 (pages 187-198).					
	T13	SSAB report, "A Brief Description of the Ljungstrom Method for Shale Oil Production," 1950, (12 pages).					
	T14	Salomonsson G., SSAB report, "The Lungstrom In Situ-Method for Shale Oil Recovery, 1950 (28 pages)					
	T15	"Swedish shale oil-Production method in Sweden," Organisation for European Economic Co-operation, 1952, (70 pages).					
	T16	SSAB report, "Kvarn Torp" 1958, (36 pages).					
	T17	SSAB report, "Kvarn Torp" 1951 (35 pages).					
	T18	SSAB report, "Summary study of the shale oil works at Narkes Kvarntorp" (15 pages).					
	T19	Vogel et al. "An Analog Computer for Studying Heat Transfrer during a Thermal Recovery Process," AIME Petroleum Transactions, 1955 (pages 205-212).					

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<input checked="" type="checkbox"/>	T20	"SKIFEROLJA GENOM FÖRÄRNING AV SKIFFERBERGET," Faxin Department och Namder, 1941, (3 pages)		
<input type="checkbox"/>	T21	"Aggregeringens orsaker och ransoneringen grunder", Av director E.F.Cederlund I Statens livesmedelskommission (1 page).		
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<input type="checkbox"/>	T23	SAAB report, "The Swedish Shale Oil Industry," 1948 (8 pages).		
<input type="checkbox"/>	T24	Gejrot et al., "The Shale Oil Industry in Sweden," Carlo Colombo Publishers-Rome, Proceedings of the Fourth World Petroleum Congress, 1955 (8 pages)		
<input type="checkbox"/>	T25	Hedback, T. J., The Swedish Shale as Raw Material for Production of Power, Oil and Gas," XIth Sectional Meeting World Power Conference, 1957 (9 pages)		
<input type="checkbox"/>	T26	SAAB, "Santa Cruz, California, Field Test of the Lins Method for the Recovery of Oil from Sand", 1955 Vol. 1, (141 pages) English		
<input type="checkbox"/>	T27	SAAB, "Santa Cruz, California, Field Test of the Lins Method for the Recovery of Oil from Sand-Figures", 1955 Vol. 2, (146 pages) English.		
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<input type="checkbox"/>	T35	SSAB report, "Cost For Mining," 1959-1979 (13 pages). Swedish		
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<input type="checkbox"/>	T37	SSAB report, "Assessment of Future Mining Alternatives of Shale and Dolomite," 1962, (59 pages) Swedish.		
<input type="checkbox"/>	T38	SSAB report. "Kartong 2 Shale: Ljungstromsanläggningen" (104 pages) Swedish.		
<input type="checkbox"/>	T39	SAAB, "Photos", (18 pages).		
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<input type="checkbox"/>	T41	SAAB report, "Recovery Efficiency," 1941, (61 pages). Swedish.		
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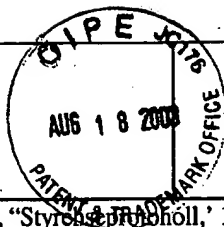
*Henry D. Johnson*

DATE CONSIDERED:

12/13/04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Form PTO-1449 (modified)  
List of Patents and Publications  
For Applicant's Information  
Disclosure Statement  
(Use several sheets if necessary)



ATTY. DKT. NO. 5659-03700

SERIAL NO. 09/841,636

APPLICANT: Wellington et al.

GROUP: 1764

FILING DATE: April 24, 2001

<input checked="" type="checkbox"/>	T47	SSAB report, "Styren och pinnhäll," 1943 (10 pages). Swedish.
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<input checked="" type="checkbox"/>	T49	SSAB report, "Analysis of Lujunstrom Oil and its Use as Liquid Fuel," Thesis by E. Pals, 1949 (83 pages). Swedish.
<input checked="" type="checkbox"/>	T50	SSAB report, "Environmental Sulphur and Effect on Vegetation," 1951 (50 pages). Swedish.
<input checked="" type="checkbox"/>	T51	SSAB report, "Tar Sands", Vol.135 1953 (20 pages, pages 12-15 translated). Swedish.
<input checked="" type="checkbox"/>	T52	SSAB report, "Assessment of Skanes Area (Southern Sweden) Shales as Fuel Source," 1954 (54 pages). Swedish.
<input checked="" type="checkbox"/>	T53	SSAB report, "From as Utre Dn Text Geology Reserves," 1960 (93 pages). Swedish.
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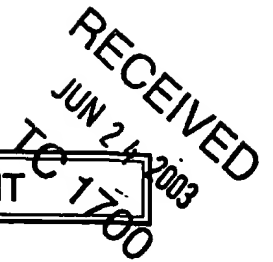
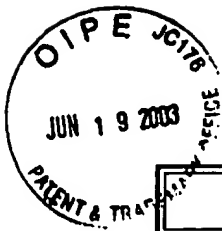
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DATE CONSIDERED:

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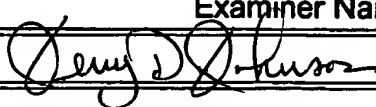
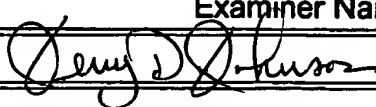
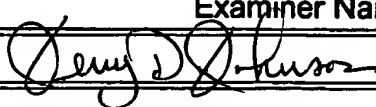
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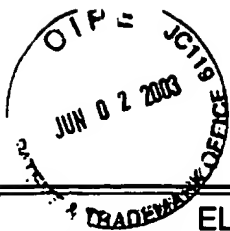




## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18  
Stylesheet Version v18.0

<b>Title of Invention</b>	<b>IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO PRODUCE A MIXTURE INCLUDING AMMONIA</b>																								
<p>Application Number: 09/841636 Confirmation Number: 6234 First Named Applicant: Scott Wellington Attorney Docket Number: 5659-03700 Art Unit: 1764 Examiner: Marian C. Knode Search string: ( 3026940 or</p>																									
<b>US Patent Documents</b>  Note: Applicant is not required to submit a paper copy of cited US Patent Documents																									
<table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td><input checked="" type="checkbox"/></td><td>1</td><td>3026940</td><td>1962-03-27</td><td>Spitz</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>2</td><td>3947683</td><td>1976-03-30</td><td>Schultz et al.</td><td></td><td></td><td></td></tr></tbody></table>		init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	<input checked="" type="checkbox"/>	1	3026940	1962-03-27	Spitz				<input checked="" type="checkbox"/>	2	3947683	1976-03-30	Schultz et al.			
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<input checked="" type="checkbox"/>	2	3947683	1976-03-30	Schultz et al.																					
<b>Signature</b>																									
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<b>Examiner Name</b>	<b>Date</b>																								
	12/13/04																								



# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

## Title of Invention

IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING  
FORMATION TO PRODUCE A MIXTURE INCLUDING AMMONIA

Application Number: 09/841636  
Confirmation Number: 6234  
First Named Applicant: Scott Wellington  
Attorney Docket Number: 5659-03700  
Examiner: unknown unknown  
Search string: ( 3986556 or 4031956 or 4140180 or 4412585 or 4501326 or 4524827 or 4585066  
or 4776638 or 4856587 or 5517593 or 5099918 or 5751895 or 6015015 or  
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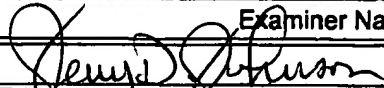
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## US Patent Documents

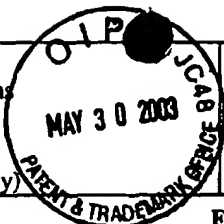
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<input checked="" type="checkbox"/>	13	6015015	2000-01-18	Luft et al.			
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## Signature

Examiner Name	Date
	12/13/04

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ATTY. DKT. NO. 5659-03700/TH1962

SERIAL NO. 09/841,636

APPLICANT: Wellington et al.

GROUP: 1764

FILING DATE: April 24, 2001

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
	AA2	294 809	1988-12-14	EP			

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## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18  
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Title of  
Invention

IN SITU THERMAL PROCESSING OF A HYDROCARBON  
CONTAINING FORMATION TO PRODUCE A MIXTURE  
INCLUDING AMMONIA

Application Number: 09/841636  
Confirmation Number: 6234  
First Named Applicant: Scott Wellington  
Attorney Docket Number: 5659-03700  
Examiner: Unknown Unknown  
Search string: ( 1646599 or 3952802 or 4010800 or  
3892270 ).pn.

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MAY 28 2003

### US Patent Documents

TC 1700

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

Init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
<input checked="" type="checkbox"/>	1	1646599	1927-10-25	Schaefer			
<input checked="" type="checkbox"/>	2	3952802	1976-04-27	Terry			
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<input checked="" type="checkbox"/>	4	3892270	1975-07-01	Lindquist			

### Remarks

Note: Remarks are not for responding to an office action.

Foreign applications and other art will be submitted on a PTO-1449 form

### Signature


Examiner Name	Date
	12/13/04



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## IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO PRODUCE A MIXTURE INCLUDING AMMONIA

Application:   
09/841636

Confirmation: 6234

Applicant(s): Scott Wellington

Docket  
Number: 5659-03700

Group Art




Unit:


Examiner: Unknown

search string: (4193451 or 4265307 or 4390067 or 4456065 or 4457374 or 4479541 or 4498535 or 4598770 or 4669542 or 4682652 or 4982786 or 5201219 or 5339904 or 3349845 ).pn.


### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
	P08	4193451	1980-03-18		Dauphine		
	P09	4265307	1981-05-05		Elkins		
	P10	4390067	1983-06-		Wilman		

			28		
	P11	4456065	1984-06-26		Heim et al.
	P12	4457374	1984-07-03		Hoekstra et al.
	P13	4479541	1984-10-30		Wang
	P14	4498535	1985-02-12		Bridges
	P15	4598770	1986-07-08		Shu et al.
	P16	4669542	1987-06-02		Venkatesan
	P17	4682652	1987-07-28		Huang et al.
	P18	4982786	1991-01-08		Jennings, Jr.
	P19	5201219	1993-04-13		Bandurski et al.
	P20	5339904	1994-08-23		Jennings, Jr.
	P25	3349845	1967-10-31		Holbert et al.

## Signature

Examiner Name	Date
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## IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO PRODUCE A MIXTURE INCLUDING AMMONIA

Application:



09/841636

Confirmation:

6234

Applicant(s):

Scott Wellington

Docket

5659-03700

Number:

Group Art Unit:

Examiner:

Unknown

search string:

(3221811 or 3987851 or 4042026 or 4005752 or 5868202 or 5126037 or 3477058 or 3580987 ).pn.

04/22/2003 KDAHTE1 00000001 501505 09841636

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### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

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001	P01	3221811	1965-12-07		Prats		
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003	P03	4042026	1977-08-16		Pusch et al.		




P04	4005752	1977-02-01	Cha
P05	5868202	1999-02-09	Hsu
P06	5126037	1992-06-30	Showalter
P07	3477058	1968-11-04	Vedder et al.
P08	3580987	1971-05-25	Priaroggia

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Signature

Examiner Name	Date
	12/13/04



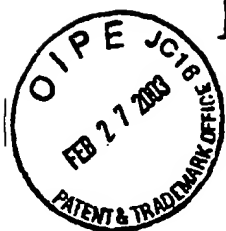
Form PTO-1449 (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)	ATTY. DKT. NO. 5659-03700/TI 62 APPLICANT: Wellington et al. FILING DATE: April 24, 2001	SERIAL NO. 09/841,636 GROUP: 1764
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
	L12	Van Krevelen, COAL: Typology-Physics-Chemistry-Constitution, 1993, pp. 27, 42, 52, 322, 323, 324, 325, 326, 526, 527, 726.

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DATE CONSIDERED: 12/13/04

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# Electronic Information Disclosure Statement

## IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION TO PRODUCE A MIXTURE INCLUDING AMMONIA

Application:   
09/841636

Confirmation: 6234

Applicant(s): Scott Wellington

Docket Number: 5659-03700

Group Art Unit:

Examiner: Unknown





search string: (4087130 or 4537252 or re30019 or 2623596 or 3775185 or 4524113 or 5284878 or 5767584 or 5955039 or 4091869 or 4513816 or 0094813 or 5008085 or 4099567 or 0048994 or 6485232 or 20020018697 ).pn.

02/28/2003 HDEHESS1 00000066 501535 028-1133

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### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
	P23	4087130	1978-05-02		Garrett		
	P24	4537252	1985-08-27		Puri		

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ATTY. DKT. NO. 5659-03700/TH1962

SERIAL NO. 09/841,636

APPLICANT: Wellington et al.

GROUP: 1764

FILING DATE: April 24, 2001

**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	H1	4,093,025	June 78	Terry			
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	J1	326,439	Sep-1885	McEachen			
	J2	1,681,523	Feb-1928	Downey et. al.			
	J3	2,244,256	Jun-1941	Looman			
	J4	2,714,930	Aug-1955	Carpenter			
	J5	3,547,193	Dec-1970	Gill			
	J6	3,562,401	Feb-1971	Long			
	J7	4,089,374	May-1978	Terry			
	J8	4,423,311	Dec-1983	Varney, Sr.			
	J9	4,489,782	Dec-1984	Perkins			
	J10	4,626,665	Dec-1986	Fort, III			
	J11	4,694,907	Sep-1987	Stahl et. al.			
	J12	5,182,792	Jan-1993	Goncalves			
	J13	5,402,847	Apr-1995	Wilson et. al.			
	J14	5,491,969	Feb-1996	Cohn et. al.			
	J15	5,621,844	Apr-1997	Bridges			
	J16	6,244,338	Jun-2001	Mones			
	J17	6,389,814	May-2002	Viteri et al.			
	J18	6,412,559	Jul-2002	Gunter et al.			
	J20	3,680,633	Aug-1972	Bennett			
	J21	4,508,170	Apr-1985	Littman			

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**FOREIGN PATENT DOCUMENTS**

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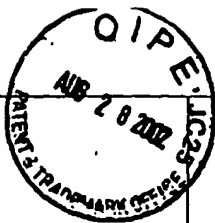
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ATTY. DKT. NO. 5659-03700/TH1962

SERIAL NO. 09/841,636

APPLICANT: Wellington et al.

GROUP: 1764

FILING DATE: April 24, 2001

**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>JO</i>	G5	3,766,982	Oct-73	Justheim	—	—	
<i>I</i>	G7	3,599,714	Aug-71	Messman et al.	—	—	
<i>I</i>	G8	4,043,393	Aug-77	Fisher et al.	—	—	

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

<i>JO</i>	G6	Rogers, Rudy E. "Coalbed Methane: Principles and Practice" Prentice-Hall, Inc. 1994, pp. 164-165.
<i>JO</i>	G9	Hyne, Norman J. Geology for Petroleum Exploration, Drilling, and Production. McGraw-Hill Book Company, 1984, p. 264.

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EXAMINER:

*James P. Johnson*

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SERIAL NO. 09/841,636

APPLICANT: Wellington et al.

GROUP: 1764

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

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ATTY. DKT. NO. 5659-03700/TH1962

SERIAL NO. 09/841,636

APPLICANT: Wellington et al.

GROUP: 1764

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

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	F1	4,252,191	Feb-1981	Pusch et al.			
/	F2	3,310,109	Mar-1967	J. W. Marx et al.			
/	G1	3,675,715	Jul-1972	Speller, Jr.			
/	G2	3,809,159	May-1974	Young et al.			

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	F3	Thermal, Mechanical, and Physical Properties of Selected Bituminous Coals and Cokes, J. M. Singer and R. P. Tye, US Department of Interior, Bureau of Mines (1979) Government Report No. 8364.					
/	G3	Rogers, Rudy E. "Coalbed Methane: Principles and Practice" Prentice-Hall, Inc. 1994, pp. 68-97.					
/	G4	Department of Energy Coal Sample Bank and Database <a href="http://www.energy.psu.edu/arg/doesb.htm">http://www.energy.psu.edu/arg/doesb.htm</a> , June 4, 2002.					

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EXAMINER:

DATE CONSIDERED: 12/13/04

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ATTY. DKT. NO. 5659-03700/TH1962  
APPLICANT: Wellington, et al.  
FILING DATE: April 24, 2001

SERIAL NO. 09/841,636  
GROUP: 1764

U.S. PATENT DOCUMENTS

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	E3	3,924,680	Dec-1975	Terry			
	E4	5,020,596	Jun-1991	Hemsath			
	E5	5,229,102	Jul-1993	Minet et al.			
	E6	5,316,664	May-1994	Gregoli et al.			
	E7	5,366,012	Nov-1994	Lohbeck			
	E8	5,541,517	Jul-1996	Hartmann et al.			
	E9	5,861,137	Jan-1999	Edlund			
	E10	6,354,373	Mar-2001	Vercaemer et al.			
	E15	4,463,807	Aug-1984	Stoddard et al.			

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<i>[Signature]</i>	E11	Coal, Encyclopedia of Chemical Technology, Kirk, R.E., Kroschwitz, J.I., Othmer, D.F., Wiley, New York, 4th edition, 1991, Vol. 6, pp. 423-488.
	E12	Cortez et al., UK Patent Application GB 2,068,014 A, Date of Publication: August 5, 1981.
	E13	Wellington et al., US Patent Application 60/273,354, Filed March 5, 2001.
	E14	The VertiTrak System Brochure, Baker Hughes, INT-01-1307A4, 2001 8 pages.

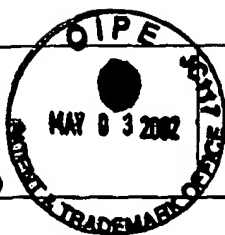
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ATTY. DKT. NO. 5659-03700/TH1962

SERIAL NO. 09/84

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
(100)	C1	1,269,747	6/1918	Rogers			
	C2	1,457,479	6/1923	Wolcott			
	C3	1,634,236	6/1927	Ranney			
	C4	2,630,307	3/1953	Martin			
	C5	2,685,930	8/1954	Albaugh			
	C6	2,703,621	3/1955	Ford			
	C7	2,771,954	11/1956	Jenks et al.			
	C8	2,793,696	5/1957	Morse			
	C9	2,890,754	6/1959	Hoffstrom et al.			
	C10	2,890,755	6/1959	Eurenius et al.			
	C11	2,906,340	9/1959	Herzog			
	C12	2,932,352	4/1960	Stegemeier			
	C13	2,958,519	11/1960	Hurley			
	C14	3,010,513	11/1961	Gerner			
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	C16	3,036,632	5/1962	Koch et al.			
	C17	3,044,545	7/1962	Tooke			
	C18	3,061,009	10/1962	Shirley			
	C19	3,062,282	11/1962	Schleicher			
	C20	3,084,919	4/1963	Slater			
	C21	3,113,619	12/1963	Reichle			
	C22	3,116,792	1/1964	Purre			
	C23	3,120,264	2/1964	Barron			
	C24	3,127,935	4/1964	Poettmann et al			
	C25	3,127,936	4/1964	Eurenius			
	C26	3,132,692	5/1964	Marx et al.			
	C27	3,205,944	9/1965	Walton			
	C28	3,233,668	2/1966	Hamilton et al.			
	C29	3,273,640	9/1966	Huntington			
	C30	3,275,076	9/1966	Sharp			

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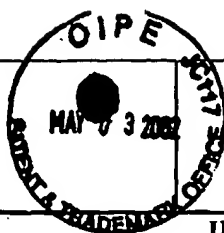
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ATTY. DKT. NO. 5659-03700/TH1962

SERIAL NO. 09/841

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>[Handwritten initials]</i>	C31	3,294,167	12/1966	Vogel			
	C32	3,352,355	11/1967	Putman			
	C33	3,379,248	4/1968	Strange			
	C34	3,605,890	9/1971	Holm			
	C35	3,617,471	11/1971	Schlinger et al.			
	C36	3,661,423	5/1972	Garrett			
	C37	3,770,398	11/1973	Abraham et al.			
	C38	3,882,941	5/1975	Pelofsky			
	C39	3,948,319	4/1976	Pritchett			
	C40	3,954,140	5/1976	Hendrick			
	C41	3,986,349	10/1976	Egan			
	C42	3,999,607	12/1976	Pennington et al.			
	C43	4,008,762	2/1977	Fisher et al.			
	C44	4,019,575	4/1977	Pisio et al.			
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	C47	4,057,293	11/1977	Garrett			
	C48	4,067,390	1/1978	Camacho et al.			
	C49	4,069,868	1/1978	Terry			
	C50	4,084,637	4/1978	Todd			
	C51	4,114,688	9/1978	Terry			
	C52	4,144,935	3/1979	Bridges et al.			
	C53	4,183,405	1/1980	Magnie			
	C54	4,228,854	10/1980	Sacuta			
	C55	4,243,101	1/1981	Gruppung			
	C56	4,277,416	7/1981	Grant			
	C57	4,306,621	12/1981	Boyd et al.			
	C58	4,324,292	4/1982	Jacobs et al.			
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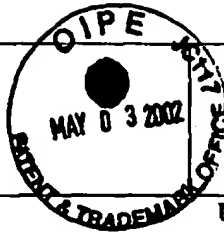
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ATTY. DKT. NO. 5659-03700/TH1962

SERIAL NO. 09/841,636

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>CO</i>	C60	4,353,418	10/1982	Hoekstra et al.			
	C61	4,384,613	5/1983	Owen et al.			
	C62	4,396,062	8/1983	Iskander			
	C63	4,397,732	8/1983	Hoover et al.			
	C64	4,444,255	4/1984	Geoffrey et al.			
	C65	4,448,251	5/1984	Stine			
	C66	4,448,252	5/1984	Stoddard et al.			
	C67	4,457,365	7/1984	Kasevich et al.			
	C68	4,476,927	10/1984	Riggs			
	C69	4,485,869	12/1984	Sresty et al.			
	C70	4,524,826	6/1985	Savage			
	C71	4,549,396	10/1985	Garwood et al.			
	C72	4,573,530	3/1986	Audeh et al.			
	C73	4,576,231	3/1986	Dowling et al.			
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	C75	4,608,818	9/1986	Goebel et al.			
	C76	4,637,464	1/1987	Forgac et al.			
	C77	4,651,825	3/1987	Wilson			
	C78	4,662,438	5/1987	Taflove et al.			
	C79	4,662,439	5/1987	Puri			
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	C82	4,704,514	11/1987	Van Edmond et al.			
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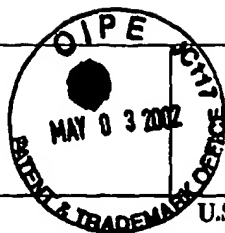
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EXAMINER: *David D. Johnson*

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ATTY. DKT. NO. 5659-03700/TH1962

SERIAL NO. 09/841,636

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
S	C90	5,082,055	1/1992	Hemsath			
	C91	5,217,076	6/1993	Masek			
	C92	5,261,490	11/1993	Ebinuma			
	C93	5,285,846	2/1994	Mohn			
	C94	5,289,882	3/1994	Moore			
	C95	5,411,104	5/1995	Stanley			
	C96	5,632,336	5/1997	Notz et al.			
	C97	5,713,415	2/1998	Bridges			
	C98	6,328,104	12/2001	Graue			
	D1	3,149,670	9/1964	Grant			
	D2	3,380,913	4/1968	Henderson			
	D3	3,794,116	2/1974	Higgins			
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	D5	4,412,124	10/1983	Kobayashi			
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S	C99	2,015,460	10/1991	CA			
	C100	940558 A1	9/1999	EP			
	C101	01/81723 A1	11/2001	WO			
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	D6	1,165,361	4/1984	CA			
	D7	1,168,283	5/1994	CA			

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*Jerry D. Johnson*

DATE CONSIDERED:

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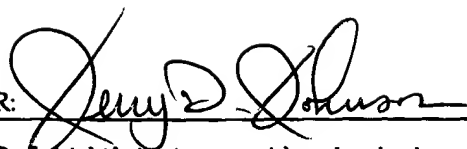
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	C107	Conversion characteristics of selected Canadian coals based on hydrogenation and pyrolysis experiments, W. Kalkreuth, C. Roy, and M. Steller. Geological Survey of Canada, Paper 89-8, 1989, pages 108-114, XP001014535		
	D9	Passey et al., US Patent Application Publication 2001/0049342 A1, December 6, 2001.		
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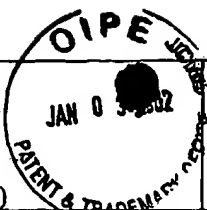
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ATTY. DKT. NO. 5659-03700/311962

SERIAL NO. 09/841,636

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<input checked="" type="checkbox"/>	A257	Comparison of Methods for Measuring Kerogen Pyrolysis Rates and Fitting Kinetic Parameters, Burnham et al., Marc 23, 1987, (29 pages).
<input checked="" type="checkbox"/>	A258	Further Comparison of Methods for Measuring Kerogen Pyrolysis Rates and Fitting Kinetic Parameters, Burnham et al., September 1987, (16 pages).
<input checked="" type="checkbox"/>	A259	Tests of a Mechanism for H <sub>2</sub> S Release During Coal Pyrolysis, Coburn et al., May 31, 1991, (6 pages).
<input checked="" type="checkbox"/>	A260	Kinetic Studies of Gas Evolution During Pyrolysis of Subbituminous Coal, J. H. Campbell et al., May 11, 1976, (14 pages).
<input checked="" type="checkbox"/>	A261	Excavation of the Partial Seam Crip Underground Coal Gasification Test Site, Robert J. Cena, August 14, 1987, (11 pages).
<input checked="" type="checkbox"/>	A262	Evolution of Sulfur Gases During Coal Pyrolysis, Oh et al., February 3, 1988, (11 pages).
<input checked="" type="checkbox"/>	A263	Coal Pyrolysis and Methane Decomposition In the Presence of a Hot Char Bed, Peters et al., August 1983, (21 pages)
<input checked="" type="checkbox"/>	A264	Pyrolysis Kinetics and Maturation of Coals from the San Juan Basin, John G. Reynolds & Alan K. Burnham, Decemb 1992, (30 pages).
<input checked="" type="checkbox"/>	A265	Numerical Model of Coal Gasification in a Packed Bed, A.M. Winslow, April 1976 (27 pages).
<input checked="" type="checkbox"/>	A266	LLL In-Situ Coal Gasification Program, Stephens et al., June, 14, 1976 (12 pages)
<input checked="" type="checkbox"/>	A267	Pyrolysis of Subbituminous Coal as it Relates to In-Situ Coal Gasification, J.H. Campbell, January 17, 1977 (20 page
<input checked="" type="checkbox"/>	A268	The Historical Development of Underground Coal Gasification, D. Olness & D.W. Gregg, June 30, 1977 (60 pages).
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<input checked="" type="checkbox"/>	A271	Ground-Water and Subsidence Investigations of the LLL In Situ Coal Gasification Experiments, Mead et al, July 17-2 1978 (31 pages).
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<input checked="" type="checkbox"/>	A273	The Use of Tracers in Laboratory and Field Tests of Underground Coal Gasification and Oil Shale Retorting, Lyczkowski et al., June 16, 1978 (19 pages).
<input checked="" type="checkbox"/>	A274	Underground Gasification of Rocky Mountain Coal, D.R. Stephens and R.W. Hill, July 18, 1978 (15 pages).
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<input checked="" type="checkbox"/>	A280	Results From the Hoe Creek No. 3 Underground Coal Gasification Experiment, Thorsness et al., May 1980, (11 page
<input checked="" type="checkbox"/>	A281	Steam Tracer Experiment at the Hoe Creek No. 3 Underground Coal Gasification Field Test, C.H. Thorsness, November 26, 1980 (51 pages).
<input checked="" type="checkbox"/>	A282	Computer Models to Support Investigations of Surface Subsidence and Associated Ground Motion Induced by Underground Coal Gasification, R.T. Langland & B.C. Trent, July 1981 (16 pages).

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ATTY. DKT. NO. 5659-03700/111962

SERIAL NO. 09/841,636

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

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	A283	Burn Cavity Growth During the Hoe Creek No. 3 Underground Coal Gasification Experiment, R.W. Hill, June 8, 198 (28 pages).
	A284	The Controlled Retracting Injection Point (Crip) System: A Modified Stream Method for <u>In Site</u> Coal Gasification, R.W. Hill & M.J. Shannon, April 15, 1981 (11 pages).
	A285	Coal Block Gasification Experiments: Laboratory Results and Field Plans: C.B. Thorsness & R.W. Hill, July 1981 (23 pages).
	A286	Laboratory Scale Simulation of Underground Coal Gasification: Experiment and Theory, J.R. Creighton & (27 pages)
	A287	Underground Coal Gasification - A Leading Contender in the Synfuels Industry, D.R. Stephens, October 27, 1981 (42 pages).
	A288	Computer Models to Support Investigations of Surface Subsidence and Associated Ground Motion Induced by Underground Coal Gasification, B.C. Trent & R.T. Langland, August 1981 (40 pages).
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	A290	Technical Underground Coal Gasification Summation: 1982 Status, Stephens et al., July 1982 (22 pages).
	A291	Review of Underground Coal Gasification Field Experiments at Hoe Creek (34 pages).
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	A294	Mathematical Modeling of Modified In Situ and Aboveground Oil Shale Retorting, Robert L. Braun, January 1981 (4 pages).
	A295	Progress Report on Computer Model for In Situ Oil Shale Retorting, R.L. Braun & R.C.Y. Chin, July 14, 1977 (34 pages).
	A296	Analysis of Multiple Gas-Solid Reactions During the Gasification of Char in Oil Shale Blocks, Braun et al., April 198 (14 pages).
	A297	Chemical Kinetics and Oil Shale Process Design, Alan K. Burnham, July 1993 (16 pages).
	A298	Reaction Kinetics and Diagnostics For Oil Shale Retorting, Alan K. Burnham, October 19, 1981 (32 pages).
	A299	Reaction Kinetics Between Steam and Oil Shale Char, A.K. Burnham, October 1978 (8 pages).
	A300	General Kinetic Model of Oil Shale Pyrolysis, Alan K. Burnham & Robert L. Braun, December 1984 (25 pages).
	A301	General Model of Oil Shale Pyrolysis, Alan K. Burnham & Robert L. Braun, November 1983 (22 pages).
	A302	Pyrolysis Kinetics for Green River Oil Shale From the Saline Zone, Burnham et al., February, 1982 (33 pages).
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	A305	High-Pressure Pyrolysis of Colorado Oil Shale, Alan K. Burnham & Mary F. Singleton, October 1982 (23 pages).
	A306	A Possible Mechanism Of Alkene/Alkane Production in Oil Shale Retorting, A.K. Burnham, R.L. Ward, November 2 1980 (20 pages).
	A307	Enthalpy Relations For Eastern Oil Shale, David W. Camp, November 1987 (13 pages).
	A308	Oil Shale Retorting: Part 3 A Correlation of Shale Oil 1-Alkene/n-Alkane Ratios With Yield, Coburn et al., August 1, 1977 (18 pages).
	A309	The Composition of Green River Shale Oil, Glen L. Cook, et al., 1968 (12 pages).

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ATTY. DKT. NO. 5659-03700/TH1962

SERIAL NO. 09/841,636

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

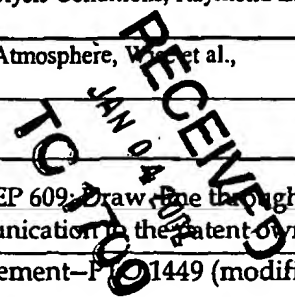
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<input checked="" type="checkbox"/>	A310	On-line, Mass Spectrometric Determination of Ammonia From Oil Shale Pyrolysis Using Isobutane Chemical Ionization, Crawford et al., March 1988 (16 pages).
<input checked="" type="checkbox"/>	A311	Thermal Degradation of Green River Kerogen at 150° to 350° C Rate of Production Formation, J.J. Cummins & W.E. Robinson, 1972 (18 pages).
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<input checked="" type="checkbox"/>	A318	Kinetic Analysis of California Oil Shale By Programmed Temperature Microphyrolysis, John G. Reynolds & Alan K. Burnham, December 9, 1991 (14 pages).
<input checked="" type="checkbox"/>	A319	Analysis of Oil Shale and Petroleum Source Rock Pyrolysis by Triple Quadrupole Mass Spectrometry: Comparisons o Gas Evolution at the Heating Rate of 10°C/Min., Reynolds et al. October 5, 1990 (57 pages).
<input checked="" type="checkbox"/>	A320	Catalytic Activity of Oxidized (Combusted) Oil Shale for Removal of Nitrogen Oxides with Ammonia as a Reductant in Combustion Gas Streams, Part II, Reynolds et al., January 4, 1993 (9 pages).
<input checked="" type="checkbox"/>	A321	Fluidized-Bed Pyrolysis of Oil Shale, J.H. Richardson & E.B. Huss, October 1981 (27 pages).
<input checked="" type="checkbox"/>	A322	Retorting Kinetics for Oil Shale From Fluidized-Bed Pyrolysis, Richardson et al., December 1981 (30 pages).
<input checked="" type="checkbox"/>	A323	Recent Experimental Developments in Retorting Oil Shale at the Lawrence Livermore Laboratory, Albert J. Rothman August 1978 (32 pages).
<input checked="" type="checkbox"/>	A324	The Lawrence Livermore Laboratory Oil Shale Retorts, Sandholtz et al. September 18, 1978 (30 pages).
<input checked="" type="checkbox"/>	A325	Operating Laboratory Oil Shale Retorts In An In-Situ Mode, W. A. Sandholtz et al., August 18, 1977 (16 pages).
<input checked="" type="checkbox"/>	A326	Some Relationships of Thermal Effects to Rubble-Bed Structure and Gas-Flow Patterns in Oil Shale Retorts, W. A. Sandholtz, March 1980 (19 pages).
<input checked="" type="checkbox"/>	A327	Assay Products from Green River Oil Shale, Singleton et al., February 18, 1986 (213 pages).
<input checked="" type="checkbox"/>	A328	Biomarkers in Oil Shale: Occurrence and Applications, Singleton et al., October 1982 (28 pages).
<input checked="" type="checkbox"/>	A329	Occurrence of Biomarkers in Green River Shale Oil, Singleton et al., March 1983 (29 pages).
<input checked="" type="checkbox"/>	A330	An Instrumentation Proposal for Retorts in the Demonstration Phase of Oil Shale Development, Clyde J. Sisemore, April 19, 1977, (34 pages).
<input checked="" type="checkbox"/>	A331	A Laboratory Apparatus for Controlled Time/Temperature Retorting of Oil Shale, Stout et al., November 1, 1976 (19 pages).
<input checked="" type="checkbox"/>	A332	SO <sub>2</sub> Emissions from the Oxidation of Retorted Oil Shale, Taylor et al., November 1981 (9 pages).
<input checked="" type="checkbox"/>	A333	Nitric Oxide (NO) Reduction by Retorted Oil Shale, R.W. Taylor & C.J. Morris, October 1983 (16 pages).
<input checked="" type="checkbox"/>	A334	Coproduction of Oil and Electric Power from Colorado Oil Shale, P. Henrik Wallman, September 24, 1991 (20 pages)
<input checked="" type="checkbox"/>	A335	<sup>13</sup> C NMR Studies of Shale Oil, Raymond L. Ward & Alan K. Burnham, August 1982 (22 pages).
<input checked="" type="checkbox"/>	A336	Identification by <sup>13</sup> C NMR of Carbon Types in Shale Oil and their Relationship to Pyrolysis Conditions, Raymond L. Ward & Alan K. Burnham, September 1983 (27 pages).
<input checked="" type="checkbox"/>	A337	A Laboratory Study of Green River Oil Shale Retorting Under Pressure In a Nitrogen Atmosphere, W. et al., September 1976 (24 pages).

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ATTY. DKT. NO. 5659-03700/TH1962

SERIAL NO. 09/841,636

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

	A338	Quantitative Analysis and Evolution of Sulfur-Containing Gases from Oil Shale Pyrolysis by Triple Quadrupole Mass Spectrometry, Wong et al., November 1983 (34 pages).
	A339	Quantitative Analysis & Kinetics of Trace Sulfur Gas Species from Oil Shale Pyrolysis by Triple Quadrupole Mass Spectrometry (TQMS), Wong et al., July 5-7, 1983 (34 pages).
	A340	Application of Self-Adaptive Detector System on a Triple Quadrupole MS/MS to High Explosives and Sulfur-Containing Pyrolysis Gases from Oil Shale, Carla M. Wong & Richard W. Crawford, October 1983 (17 pages).
	A341	An Evaluation of Triple Quadrupole MS/MS for On-Line Gas Analyses of Trace Sulfur Compounds from Oil Shale Processing, Wong et al., January 1985 (30 pages).
	A342	Source and Kinetics of Sulfur Species in Oil Shale Pyrolysis Gas by Triple Quadrupole Mass Spectrometry, Wong et al., October 1983 (14 pages).
	A343	The Centralia Partial Seam CRIP Underground Coal Gasification Experiment, Cena et al., June 1984 (38 pages).
	A344	Results of the Centralia Underground Coal Gasification Field Test, Hill et al., August 1984 (18 pages).
	A345	Excavation of the Partial Seam Crip Underground Coal Gasification Test Site, Cena et al., August 14, 1987 (11 pages).
	A346	Assessment of the CRIP Process for Underground Coal Gasification: The Rocky Mountain I Test, Cena et al., August 1988 (22 pages).
	A347	Mild Coal Gasification-Product Separation, Pilot-Unit Support, Twin Screw Heat Transfer, and H <sub>2</sub> S Evolution, Camp et al., August 9, 1991 (12 pages).
	A348	Underground Coal Gasification Site Selection and Characterization in Washington State and Gasification Test Design Randolph Stone & R.W. Hill, September 10, 1980 (62 pages).

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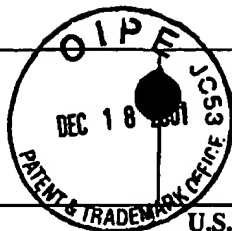
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GROUP: 1764

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>[initials]</i>	A1	760,304	05/1904	Butler			
	A2	1,342,741	06/1920	Day			
	A3	1,510,655	10/1924	Clark			
	A4	1,666,488	02/1927	Crawshaw			
	A5	1,913,395	11/1929	Karrick			
	A6	2,423,674	07/1947	Agren			
	A7	2,444,755	07/1948	Steffen			
	A8	2,466,945	02/1946	Greene			
	A9	2,472,445	06/1949	Sprong			
	A10	2,484,063	10/1949	Ackley			
	A11	2,497,868	02/1950	Dalin			
	A12	2,548,360	04/1951	Germain			
	A13	2,593,477	04/1952	Newman et al.			
	A14	2,595,979	05/1952	Pevere et al.			
	A15	2,630,306	01/1952	Evans			
	A16	2,634,961	04/1953	Ljungstrom			
	A17	2,642,943	06/1953	Smith et al.			
	A18	2,670,802	03/1954	Ackley			
	A19	2,695,163	11/1954	Pearce et al.			
	A20	2,732,195	01-24-56	Ljungstrom			
	A21	2,734,579	02-14-56	Elkins			
	A22	2,780,449	02-05-57	Fisher et al.			
	A23	2,777,679	01/1957	Ljungstrom			
	A24	2,780,450	02/1957	Ljungstrom			
	A25	2,786,660	03/1957	Alleman			
	A26	2,789,805	04/1957	Ljungstrom			
	A27	2,804,149	08/1957	Kile			
	A28	2,841,375	07/1958	Salomonsson			
	A29	2,902,270	09/1959	Salomonsson et al.			
	A30	2,906,337	09/1959	Henning			

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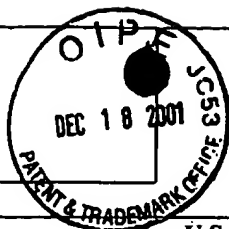
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ATTY. DKT. NO. 5659-03700/TH1963  
APPLICANT: Wellington, et al.  
FILING DATE: April 24, 2001

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U.S. PATENT DOCUMENTS

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	A31	2,914,309	11/1959	Salomonsson			
	A32	2,923,535	02/1960	Ljungstrom			
	A33	2,939,689	06/1960	Ljungstrom			
	A34	2,954,826	10/1960	Sievers			
	A35	2,974,937	03/1961	Kiel			
	A36	2,994,376	08/1961	Crawford et al.			
	A37	2,998,457	08/1961	Paulsen			
	A38	3,004,603	10/1961	Rogers et al.			
	A39	3,007,521	11/1961	Trantham et al.			
	A40	3,095,031	06/1963	Eurenius et al.			
	A41	3,105,545	10/1963	Prats et al.			
	A42	3,106,244	10/1963	Parker			
	A43	3,110,345	11/1963	Reed et al.			
	A44	3,113,623	12/1963	Krueger			
	A45	3,114,417	12/1963	McCarthy			
	A46	3,131,763	05/1964	Kunetka et al.			
	A47	3,139,928	07/1964	Broussard			
	A48	3,142,336	07/1964	Doscher			
	A49	3,149,672	10/1964	Orkiszewski et al.			
	A50	3,163,745	12/1964	Boston			
	A51	3,164,207	01/1965	Thessen et al.			
	A52	3,182,721	05/1965	Hardy			
	A53	3,183,675	05/1965	Schroeder			
	A54	3,191,679	06/1965	Miller			
	A55	3,205,946	10/1965	Prats et al.			
	A56	3,207,220	10/1965	Williams			
	A57	3,208,531	10/1965	Tamplen			
	A58	3,209,825	10/1965	Alexander et al.			

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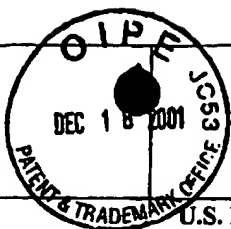
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ATTY. DKT. NO. 5659-03700/TH1952

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APPLICANT: Wellington, et al.

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U.S. PATENT DOCUMENTS

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	A60	3,241,611	03/1966	Dougan			
	A61	3,250,327	05/1966	Crider			
	A62	3,267,680	08/1966	Schlumberger			
	A63	3,284,281	11/1966	Thomas			
	A64	3,338,306	08/1967	Cook			
	A65	3,528,501	09/1970	Parker			
	A66	3,595,082	07/1971	Miller et al.			
	A67	3,973,628	08/1976	Colgate			
	A68	3,992,148	11/1975	Child			
	A69	3,993,132	11/1977	Garrett			
	A70	4,016,239	04/1977	Fenton			
	A71	4,076,761	02/1978	Chang et al.			
	A72	4,089,372	05/1978	Terry			
	A73	4,093,026	06/1978	Ridley			
	A74	4,096,163	06/1978	Chang, et al.			
	A75	4,130,575	12/1978	Jorn et al.			
	A76	4,133,825	01/1979	Stroud et al.			
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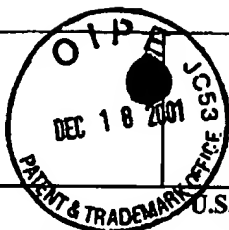
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ATTY. DKT. NO. 5659-03700/TH1962

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[Handwritten mark]	A89	4,381,641	05/1983	Madgavkar et al.			
	A90	4,398,151	08/1983	Vinegar et al.			
	A91	4,407,973	10/1983	van Dijk et al.			
	A92	4,409,090	10/1983	Hanson et al.			
	A93	4,444,258	04/1984	Kalmar			
	A94	4,501,445	02/1985	Gregoli			
	A95	4,530,401	07/1985	Hartman et al.			
	A96	4,540,882	10/1985	Vinegar et al.			
	A97	4,542,648	10/1985	Vinegar et al.			
	A98	4,570,715	02/1986	Van Meurs et al.			
	A99	4,571,491	02/1986	Vinegar et al.			
	A100	4,572,299	02/1986	Vanegmond et al.			
	A101	4,583,046	04/1986	Vinegar et al.			
	A102	4,583,242	04/1986	Vinegar et al.			
	A103	4,594,468	06/1986	Minderhoud			
	A104	4,597,441	07/1986	Ware et al.			
	A105	4,605,680	08/1986	Beuther et al.			
	A106	4,613,754	09/1986	Vinegar et al.			
A107	4,616,705	10/1986	Stegemeier et al.				
A108	4,635,197	01/1987	Vinegar et al.				
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A112	4,663,711	05/1987	Vinegar et al.				
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A114	4,716,960	01/1988	Eastlund et al.				
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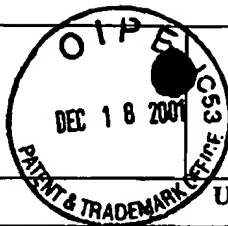
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U.S. PATENT DOCUMENTS

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[Handwritten marks]	A119	4,762,425	08/1988	Shakkottai et al.			
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	A121	4,769,606	09/1988	Vinegar et al.			
	A122	4,793,656	12/1988	Siddoway et al.			
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	A126	4,860,544	08/1989	Krieg et al.			
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	A128	4,884,455	12/1989	Vinegar et al.			
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	A132	4,983,319	01/1991	Gregoli et al.			
	A133	4,984,594	01/1991	Vinegar et al.			
	A134	4,987,368	01/1991	Vinegar			
	A135	4,994,093	02/1991	Wetzel et al.			
	A136	5,014,788	05/1991	Puri et al.			
	A137	5,046,559	10/1991	Glandt			
	A138	5,050,386	09/1991	Krieg et al.			
	A139	5,060,287	10/1991	Van Egmond			
	A140	5,060,726	10/1991	Glandt et al.			
	A141	5,065,818	11/1991	Van Egmond			
	A142	5,168,927	12/1992	Stegemeier et al.			
	A143	5,189,283	02/1993	Carl, Jr. et al.			
	A144	5,190,405	03/1993	Vinegar et al.			
	A145	5,207,273	05/1993	Cates et al.			
	A146	5,211,230	05/1993	Ostapovich et al.			
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A148	5,229,583	07/1993	van Egmond et al.				

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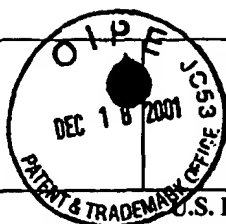
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	A150	5,255,742	10/1993	Mikus			
	A151	5,297,626	03/1994	Vinegar et al.			
	A152	5,306,640	04/1994	Vinegar et al.			
	A153	5,318,116	06/1994	Vinegar et al.			
	A154	5,339,897	08/1994	Leaute			
	A155	5,340,467	08/1994	Gregoli et al.			
	A156	5,349,859	09/1994	Kleppe			
	A157	5,388,640	02/1995	Puri et al.			
	A158	5,388,641	02/1995	Yee et al.			
	A159	5,388,642	02/1995	Puri et al.			
	A160	5,388,643	02/1995	Yee et al.			
	A161	5,388,645	02/1995	Puri et al.			
	A162	5,391,291	02/1995	Winqvist et al.			
	A163	5,392,854	02/1995	Vinegar et al.			
	A164	5,404,952	04/1995	Vinegar et al.			
	A165	5,409,071	04/1995	Wellington et al.			
	A166	5,411,089	05/1995	Vinegar et al.			
	A167	5,415,231	05/1995	Northrop et al.			
	A168	5,431,224	07/1995	Laali			
	A169	5,433,271	07/1995	Vinegar et al.			
	A170	5,437,506	08/1995	Gray			
	A171	5,439,054	08/1995	Chaback et al.			
	A172	5,454,666	10/1995	Chaback et al.			
	A173	5,497,087	03/1996	Vinegar et al.			
	A174	5,498,960	03/1996	Vinegar et al.			
	A175	5,525,322	06/1996	Willms			
	A176	5,553,189	09/1996	Stegemeier et al.			
	A177	5,554,453	09/1996	Steinfeld et al.			
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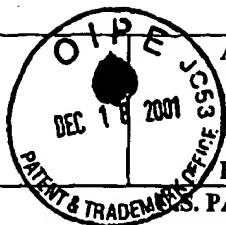
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
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	A179	5,624,188	04/1997	West			
	A180	5,656,239	08/1997	Stegemeier et al.			
	A181	5,676,212	10/1997	Kuckes			
	A182	5,862,858	01/1999	Wellington et al.			
	A183	5,899,269	05/1999	Wellington et al.			
	A184	5,968,349	10/1999	Duyvesteyn et al.			
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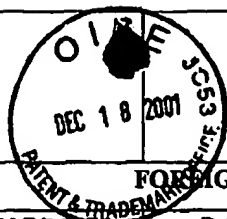
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List of Patents and Publications  
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Disclosure Statement  
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ATTY. DKT. NO. 5659-03700/TH1952

SERIAL NO. 09/841,636

APPLICANT: Wellington, et al.

GROUP: 1764

FILING DATE: April 24, 2001

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